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**(54) MEMBER INSIDE PLASMA TREATMENT CHAMBER, AND
MANUFACTURING METHOD THEREFOR**

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a member inside a plasma treatment chamber, excellent in plasma erosion resistance, and to provide an advantageous manufacturing method therefor.

SOLUTION: The surface of a base material is coated with a multilayered combined layer consisting of a metal film formed as an undercoat, an Al₂O₃ film formed as an intermediate layer on the undercoat, and a Y₂O₃ sprayed deposit formed as a topcoat on the intermediate layer.

CLAIMS

[Claim(s)]

[Claim 1] Interior material of a plasma treatment container characterized by covering the front face of a base material with 2OY3 sprayed coating.

[Claim 2] Interior material of a plasma treatment container according to claim 1 characterized by having a metallic film as an under coat under the Y₂O₃ sprayed coating formed as topcoat.

[Claim 3] Interior material of a plasma treatment container according to claim 2 characterized by having an interlayer between the metallic film formed as an undercoat, and 2OY3 sprayed coating formed as topcoat.

[Claim 4] The gap or one or more sorts of metals which be chosen from nickel and its